# Product data sheet
## Characteristics

# XMLP015RD23F
## Electronic pressure sensors, Pressure sensors XM, transmitter 15 PSI, 4...20 mA, 1/4 18NPT male, FPM, M12


### Main

| | |
|---|---|
| Range of product | Telemecanique Pressure sensors XM |
| Product or component type | Electronic pressure sensors |
| Pressure sensor type | Pressure transmitter |
| Pressure sensor name | XMLP |
| Electrical circuit type | Control circuit |
| Pressure rating | 103.42 kPa |
| Local display | Without |
| Controlled fluid | Fresh water (0…125 °C)<br>Air (-15…125 °C)<br>Gas (-15…125 °C)<br>Hydraulic oil (-15…125 °C) |
| Fluid connection type | 1/4" - 18 NPT (male) |
| Electrical connection | 1 male connector M12 4 pins |
| [Us] rated supply voltage | 12...24 V DC SELV (voltage limits: 7…33 V) |
| Current consumption | < 23 mA |
| Type of output signal | Analogue |
| Analogue output function | 4...20 mA, 2-wire |
| Quantity per set | Set of 1 |
| Type of packing | Individual |

### Complementary

| | |
|---|---|
| Pressure setting range | 0.00…103.42 kPa |
| Maximum permissible accidental pressure | 303.37 kPa |
| Destruction pressure | 503.32 kPa |
| Materials in contact with fluid | Fluorocarbon FPM<br>Stainless steel AISI 316L<br>Ceramic |
| Operating position | Any position |
| Protection type | Load short-circuit<br>Reverse polarity |
| Electromagnetic compatibility | Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 10 V/m 80...1000 MHz<br>Radiated RF fields conforming to IEC 61000-4-6 10 V 0.15...80 MHz<br>Electrostatic discharge immunity test conforming to IEC 61000-4-2 8 kV air, 4 kV contact<br>1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 1 kV 42 Ohm<br>Immunity to magnetic fields conforming to IEC 61000-4-8 100 A/m 50 Hz<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 4 kV |
| [Uimp] rated impulse withstand voltage | 0.5 kV |
| Response time on output | <= 2 ms 10...90 % of full scale |
| Measurement accuracy | +/- 0.5 % of the measuring range |
| Resolution | 0.1 % of the measuring range |
| Drift of the sensitivity | +/- 0.02 % of measuring range/°K |
| Drift of the zero point | +/- 0.02 % of measuring range/°K |
| Long term stability | +/- 0.25 % of the measuring range |
| Mechanical durability | 10000000 cycles |
| Net weight | 0.075 kg |

| | |
|---|---|
| Diameter | 26 mm |
| Length | 30.2 mm |

## Environment

| | |
|---|---|
| Standards | NSF ANSI 61<br>IEC 61326-2-3 |
| Product certifications | RCM[RETURN]cULus[RETURN]CE |
| Ambient air temperature for operation | -30…85 °C |
| Ambient air temperature for storage | -50…100 °C |
| Vibration resistance | 20 gn (f = 10…2000 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 100 gn for 11 ms conforming to IEC 60068-2-27 |
| IP degree of protection | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

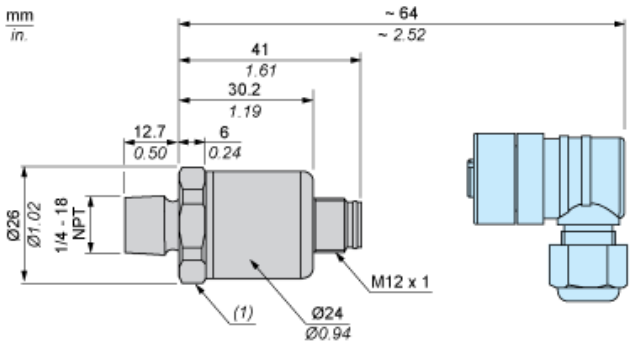
## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.1 cm |
| Package 1 Width | 4.5 cm |
| Package 1 Length | 8.5 cm |
| Package 1 Weight | 75.0 g |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| Circularity Profile | No need of specific recycling operations |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

## Dimensions

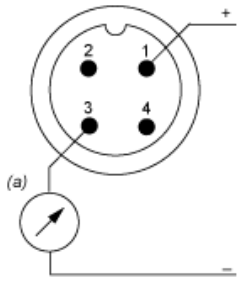



(1) SW24 tightening torque ≤ 25 N.m / 221 lb-in

## Connection and Schema

### Wiring Diagram

2-Wire Technique (4-20 mA)




(a) I out

## Performance Curves

### Curves